

June 25, 2001 [Number 219]

Printer Version [44 pages]

Interface contains information about services and facilities provided by CIT to NIH and other government agencies. Changes in CIT policies and standards of service, as well as significant changes made to hardware and software on various platforms at the NIH Computer Center, are announced in this publication.

You may subscribe to *Interface Online* by joining the Listserv list, "Interface." From the NIH <u>Listserv</u> Web page, select "Join or leave the list."

Past issues of <u>Interface</u> (beginning with issue 189, December 31, 1994) are available on the Web.

Http://www.nih.gov is one of the most frequently visited federal government Web sites.

	<i>April</i>	May
Total hits for the month	30,887,570	34,505,227
Hits per day	1,029,585	1,113,071
Number of individuals visiting	353,492	354,886

Server has been up 100% for 351 consecutive days (as of June 25).

Published By

Center for Information Technology
National Institutes of Health

Comments

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Total hits for the month	30,887,570	34,505,227
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Server has been up 100% for 359 consecutive days (as of June 25).

Features

NIH Portal Provides Access to NIH Information— From a Single Web Page

NIH institutes, centers and offices create, receive and collect a vast amount of data and documents that reside in "stovepipe" systems—systems performing one function and not integrated with other systems. As a result, NIH employees have difficulty finding information quickly and easily. To help address this issue, the NIH Chief Information Officer is leading an initiative to develop the NIH portal.

A portal is a Web-based application that integrates access to an organization's applications and information via a single, customizable interface. The NIH portal will enable employees to bring together—in one site—links to data and documents needed every day (internal databases, Web sites and search engines) and external information (scientific journals, medical news and media coverage).

Finally, the NIH portal will organize internal and external content into a logical and browsable hierarchy or taxonomy—much as popular consumer portals organize links into categories. To develop the portal taxonomy, the NIH portal team is working extensively with focus groups from NIH functional areas to identify content important to portal users.

Participating in the Pilot Project

The NIH portal is currently under development only for NIH employees, although it will eventually be extended to external communities such as grantees. NIH employees can view the pilot version and customize a personal "MyPage." Go to the portal Web page [http://my.nih.gov]—enter the same login name, password and domain used to access your local area network. If you are unable to log in, or you do not see your IC/user group listed, please contact the portal administrators at portaladmin@nih.gov.

Please let us know how you like the NIH portal. If you have any suggestions, please send e-mail to portaladmin@nih.gov.

Personalized NIH Portal - "MyPage"

NIH portal users are able to personalize their own "MyPage" to contain the tools and information they need. By allowing this customization, the portal will help NIH employees focus on the applications and information critical to their work and filter out the overwhelming amount of peripheral information bombarding them every day.

The personalized MyPage (below) provides access to a variety of internal NIH tools. Each of these tools and services are available to portal users via "modules" – building blocks of information. Modules are mini-applications that provide access to disparate systems. This personalized MyPage

provides access to a variety of internal NIH tools (the NIH Calendar of Events, the shuttle bus schedule, the CRISP database, ITAS) and external tools (local weather forecasts).



The portal will eventually add an extensive range of NIH systems and information, including

- grant submissions
- intramural/clinical research
- professional news and scientific journals
- NIH employee information (e.g., HR forms, policies & procedures)
- best practices

Choosing "Modules"

Choosing modules to create your own personalized interface to the portal is easy. Click on "Choose Modules" in the upper left-hand corner of your MyPage to choose the modules you want on your personalized page. You are allowed to add to your personalized MyPage any module to which you have access privileges. By clicking on a category, you can select the modules you want.



Once you have finished all your selections and clicked on "Finished," the system builds your personalized portal very quickly, and you can begin using it. Changing placement of modules is very easy — buttons are provided for changing placement and size, or removing the module.

Community Interest Pages

The portal also contains a variety of "community pages" to which a user can subscribe. A portal "community page" provides information for a specific NIH interest, and can serve as a site for a project team, an NIH Office, or for users of a common professional interest. A prominent link, "Communities," allows you to join communities already created.

The leader of the community page builds the tools and information important to that community—using the same modules used in the MyPage. The following examples of community pages

illustrate how different NIH communities of interest can consolidate key tools and information and collaborate on key issues and topics.

Example - Intramural Research Portal Community Page



Example - 508 Web Group Community Page





The NIH Business System Has a New Name—NBRSS

Two projects – the NIH Business System (NBS) and the Enterprise Human Resources and Payroll (EHRP) – have recently merged and are now known as the NIH Business and Research Support System (NBRSS).

You can learn more by visiting the NBRSS Web site [http://nbs.nih.gov/]. Click on "Current Status Publication" to view the project newsletter, *NBRSS Today*.

For more information, comments, or questions about the NBRSS project or newsletter, contact Marina Gregory at *gregorym@od.nih.gov*.

508 Accessibility—Assistance Is Available for Web Page Owners

On June 21, 2001, new federal government rules take effect that require new or substantially revised Web sites to be accessible by people with disabilities (under section 508 of the Rehabilitation Act, amended in 1998). Web pages in place prior to June 21 do not have to be replaced. To be 508 compliant, Web sites need to work with assistive devices, such as the screen readers used by persons who are blind or visually impaired. Many of the solutions are quite simple (such as, providing a caption to describe an image).

Are you involved with the creation, maintenance or administration of a Web site here at NIH? If 508 compliance has you worried, fear not. Technical assistance is available. To assist NIH Web developers, NCI, CIT, and NLM have set up special "accessibility workstations" to help their staff learn how their sites "sound" on popular screen readers, and to provide previews of the tools used to develop accessible sites.

• NCI accessibility workstation – 6116 Executive Boulevard (fifth floor)

The workstation is provided by the Communication Technologies Branch, NCI Office of Communications.

Equipped with diagnostic and repair tools (SSB Technologies InSite and InFocus and the Macromedia Dreamweaver Accessibility Extension) as well as the JAWS screen reader, the workstation allows site developers to test their sites. Available to NIH staff and contractors,

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the workstation must be reserved in advance. To sign up for a session, send an e-mail request to *ncictbascc-r*@*mail.nih.gov*.

• CIT accessibility workstation – NIH campus (building 12A, third floor)

The workstation is equipped with diagnostic and repair tools (Bobby 3.2, Wave 2.01, Lynx Viewer, JAWS screen reader). Staff will have access to reference and take-away documentation, training materials, and useful Web references.

CIT Training program staff are available to provide orientation to the workstation and assistance in bringing pages into compliance. Anyone involved in the content, design, or maintenance of NIH Web pages is welcome. Call (301) 594-6248, e-mail *tasc@nih.gov*, or drop by TASC (building 12A, room 1011) for information and assistance.

NLM accessibility workstation — Lister Hill Center (building 38A, room B1W08-A10)

The workstation offers a wide range of software for voice, vision and Web development — including an extensive variety of devices (hands-free and contoured mice, trackballs, keyboards, arm rests). Also available are general-purpose assistive software (JAWS, IBM Home Page Reader, Connect OutLoud for producing speech and Braille output to the Web, OpenBook to scan documents for reading with a screen reader, and browsers that talk and magnify).

For more information or to make an appointment, call the NLM IT Services Center (Office of Computer and Communications Systems) at (301) 496-2943, or send e-mail to helpdesk@mail.nlm.nih.gov.

Recent Changes to CIT's Project for Distributing Software to NIH

CIT's Software Distribution Project (SDP) is a subscription-based service that provides brand-name software to the NIH community at significant cost reductions. Through multi-year, large-volume license agreements, NIH (and participating DHHS Agencies) save more than \$5,000,000 annually. In fiscal year 2000, SDP provided software to more than 34,000 customers, including more than 95% of all NIH personnel.

Three important changes have occurred recently:

the agreement with Microsoft has been renewed

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- a licensing agreement with Adobe has been established
- Corel WordPerfect support has been phased out

More information about the SDP is available on the new SDP Web site [http://sdp.cit.nih.gov/]—click on "Information" and choose the link to "SDP Description."

Microsoft Enterprise Agreement

Microsoft recently changed its licensing strategy to include a new approach to upgrades. When the changes take effect October 1, 2001, analysts predict they will result in substantially increased costs to the customer. However, we will not be affected by these changes because NIH's Enterprise Agreement (EA) with Microsoft has recently been renewed.

The following questions and answers will give you more information about the agreement.

Q. Why is there an EA at NIH?

A. The advantage is that NIH gets products at a significantly reduced cost while avoiding the administrative responsibilities that are associated with software acquisition.

Q. What is a Microsoft EA?

A. The Enterprise Agreement (EA) provides software upgrades, or maintenance, and licensing for certain Microsoft products including Office, operating systems and server software. The NIH EA is a three-year, large-volume agreement.

Q. What are the key elements of the new EA?

A. The new EA is focused on software maintenance (unlike the previous EA that was license oriented). The current EA provides:

- upgrades from Office Standard to Office Professional for all enrolled desktops
- upgrades from Windows 9x to Windows NT/2000
- continued home-use rights for Microsoft Office

O. What are the enrollment fees?

A. The fee for desktop enrollment has increased from \$290 to \$320 per desktop, per year. There are also server fees; please contact your IC/Agency representative or SDP program staff for additional information.

Q. How do I participate in the EA?

A. Chances are you are already enrolled. Every IC within NIH fully participates in the EA—with the exception of the National Library of Medicine, which has a different Microsoft agreement available to libraries. AHRQ, CDC, FDA/CBER, HRSA, HIS and SAMHSA are also full or partial participants.

Q. Who is responsible for negotiating the EA?

A. CIT negotiated the EA on behalf of DHHS and administers it through the SDP Web site (see above).

Q. What is the time period for the agreement?

A. The current EA is effective from May 1, 2001 to April 30, 2004.

Adobe Enterprise Licensing Agreement

CIT has established its first Adobe Enterprise Licensing Agreement (ELA) that covers most of the Adobe product lines including Acrobat, Illustrator, PageMaker and Photoshop. The agreement provides licensing, media, documentation and maintenance at the deepest discount level, regardless of the quantity purchased. A comparison of prices with and without the ELA:

A.1.1. C. C.	Government Purchase Price	
Adobe Software	Without ELA	With ELA
Acrobat	\$47.18	\$27.55
Illustrator	\$288.92	\$228.00
PageMaker Plus	\$364.42	\$285.00
PhotoShop	\$438.24	\$347.00

Use the SDP Web page for acquiring Adobe software. The contract number for the Adobe agreement is PCG16APR200180557 and must be referenced on all orders. **Please note**: maintenance must be purchased with each license.

Corel WordPerfect

In an effort to keep costs at an affordable level, technical support and maintenance from Corel for WordPerfect has been phased out. For more information regarding Corel support, please contact TASC.

Assistance

For more information on the licensing agreements with Microsoft and Adobe, please call TASC at (301) 594-6248 or send e-mail to *tasc@nih.gov*.

Security Tips for Everyone—Even the Anxious

Better be despised for too anxious apprehensions, than ruined by too confident security.

Edmund Burke

Each of us has a responsibility to ensure that our computers and the data they contain are safe. We hope that the security tips we provide will help create a more secure IT environment at NIH.

Safeguarding Data and Information

Backups

Regularly back up your data and keep the backup copy in a secure location. Making data backups of your local drive is your responsibility.

Old floppies

Before you discard a diskette, remove all data — by either reformatting or degaussing the diskette. Refer to the NIH sanitization policy online [http://securitynews.nih.gov/security/sanitization.html].

Locks

If you handle sensitive documents, do not leave them in the open for others to see. Keep them locked up if you step away from your desk.

• Surplus computers

Before you surplus a computer, have your hard disks sanitized. Computers with disks that have not been sanitized will not be accepted as surplus. (See the NIH Sanitization policy Web site, above.)

E-mail

For sensitive financial, contract, budget, personnel, and patient information, consider using a secure mechanism when e-mailing. Consult your information systems security officer (ISSO) for more information about setting up your PC for secure e-mail transmissions.

Shredding

When you've finish working with output that contains sensitive information—including **temporary** output—lock it away or destroy it by shredding. Once material is shredded, you can place it in the recycle bin.

Sensitive data includes patient medical records, personnel records, contract information, financial and budget records, and IP addresses.

VirusScan—New Software Upgrade Should Be Run Daily

McAfee recently released VirusScan version 4.5.1, which is designed to operate on Windows 9x, NT 4.0 Workstation, 2000 Professional and ME systems.

This new release changes the functions of AutoUpdate and AutoUpgrade.

AutoUpdate now updates both the Scan Engine and the DAT files

AutoUpgrade will upgrade future product releases (e.g., from version 4.0

to 4.5) and patches (e.g., Service Patch 1 for version 4.5).

CIT recommends that you run both the McAfee AutoUpdate and AutoUpgrade daily.

Where to Get the Software

VirusScan 4.5.1 can be downloaded from antivirus Web page [http://antivirus.nih.gov/], where you can also find instructions for installation (under "Information"). After installation, configure and run AutoUpdate and AutoUpgrade. If you have questions, please call TASC at (301) 594-6248.



NBARS Users—TSM Software and Support Are Available for Red Hat Linux

The NIH Backup and Recovery Service (NBARS) now uses Tivoli Storage Manager (TSM) instead of ADSM. CIT can now use TSM (4.1) to offer backup/recovery services to users of the Red Hat Linux 6.2. The TSM client for Linux has been configured for use in the NIH environment. See *Interface* (issue 218) for more information on TSM.

Features of TSM for Linux

- **Backup-archive client interfaces** (Web browser, command-line, and graphical user interfaces) allow users to back up, archive, restore, or retrieve data files from a TSM server.
- **New security feature**—allows authorized administrators, helpdesk staff, or users to backup and recover data for a TSM client via a Web browser without having direct access to the data.

- Administrative client (command line only)—allows administrators to remotely manage any TSM server. With this feature, administrators can control and monitor server activities, define storage management policies for files, and set up schedules for automated backup and archive services.
- **Application programming interface functions**—allow easy customization of applications in order to access backup, archive, and recovery services.

Hardware and Software Requirements

- X86-based PC (486 or later)
- 30 MB disk space (plus 10 MB for API)
- 64 MB memory
- Red Hat Linux 6.2. Users of versions other than Red Hat Linux 6.2 can get assistance by calling TASC.
- Associated libraries and executables that provide functions to the Linux system—such as glibc (2.1.x), libstdc++ (2.9.x), libpthred.so, X Windows System X11R6.

Downloading the Software

The TSM client (customized for NIH) is available for downloading from the NBARS Web page [http://silk.nih.gov/silk/nbars/]—use the "Client Software" link. You will find the software and installation instructions under the Linux platform, as well as links to Tivoli information.

If you need help, please call TASC at (301) 594-6248.



Statistical and Mathematical Desktop Software Products

CIT offers statistical and mathematical software to the NIH community—SAS, SPSS, SUDAAN, S-Plus, and Mathematica. IMSL and MSTAT1 are also supported by CIT. Some software products are available for OS/390 and Unix operating systems, and will help users needing occasional or massive computing capabilities.

SAS

SAS is a data management, analysis and presentation suite. The system is built around four datadriven tasks: data access, management, analysis and presentation. SAS functionality is dependent on which modules are added to the base SAS program. SAS can be used for various projects that require database management, statistical analysis, graph and chart construction, and other data management tasks. SAS is available for OS/390, Windows, Mac and Unix operating systems.

This table highlights a few of the SAS modules offered at NIH.

Base SAS	Core of the SAS System – required for all other SAS System products. Contains the DATA step and the fundamental procedures that are needed for working with SAS data sets.
SAS/GRAPH	Produces high quality plots, bar charts, maps, text graphs and three-dimensional graphs.
SAS/STAT	Provides procedures for regression analysis, analysis of variance, categorical data analysis, multivariate analysis, discriminant analysis, scoring procedures, and survival analysis.
SAS/ACCESS	Enables SAS solutions to read, write, and update data regardless of its native database or platform. Available for DB2, Oracle, dBase, Lotus, Excel, and ODBC.
SAS/Online Tutor	Requires only a Web browser for desktop training, as well as a CIT account and registered initials.

CIT also offers two SAS portal products: JMP and StatView. JMP helps researchers to visualize their data and understand the models being fitted, as well as to provide the necessary tools to easily and efficiently communicate research results. StatView integrates data management, statistical analyses, and presentation tools into a single intuitive and coherent desktop software package. JMP and StatView are available for Windows and Macintosh. Other SAS products are available through CIT. Please contact TASC at (301) 594-6248 for information.

SPSS

SPSS provides capabilities for extensive file handling and data management tasks, including advanced statistical analysis procedures (e.g., discriminant analysis, nonlinear and logistic regression analysis, and multivariate analysis of variance). SPSS is available for OS/390, Windows, and Mac operating systems, although all products are not on all operating systems.

The following table provides a brief description of the SPSS products offered at NIH.

SPSS Base	Facilitates decision making with data access, data preparation, analytical reporting and predictive modeling.
SPSS Advanced Models	Analyzes complex relationships using high-end modeling toolkit.

SPSS Categories	Offers optimal scaling procedures that free you from the restrictions of two-way tables, placing the relationships among your variables in a larger frame of reference.
SPSS Exact Tests	Reaches correct conclusions with small samples and rare occurrences in large databases.
SPSS Maps	Demonstrates how geographic variables affect decision making when you transform SPSS data into demographic information.
SPSS Missing Values Analysis	Examines your data from several different angles with six diagnostic reports to uncover missing data patterns.
SPSS Regression Models	Makes better predictions and measures distances among your data.
SPSS Tables	Presents results in easy-to-understand tables including 35 statistics.
SPSS Trends	Improves forecasts by analyzing historical information, building models and predicting trends using powerful time-series analysis.

CIT also offers AMOS, a standalone SPSS product that replaces the old SPSS LISREL. AMOS provides easy-to-use equation modeling and is only available for Windows.

SUDAAN

SUDAAN is a single program consisting of a family of procedures used to analyze data from complex surveys and other observational and experimental studies involving cluster-correlated data. SUDAAN enables you to use survey data to obtain consistent estimates of population parameters and their standard errors in accordance with the sample design. SUDAAN also produces consistent estimates of regression coefficients, descriptive statistics, and their associated standard errors for cluster-correlated and repeated measures data applications in clinical, epidemiological, toxicological and behavioral research. SUDAAN can be installed as a standalone or SAS-callable application, and is available for OS/390 and Windows operating systems.

S-Plus

S-Plus was created specifically for data exploration and analysis, and includes built-in statistical and graphical functions. It offers specialized statistical analyses for biomedical research, such as survival analysis, generalized linear models, and analysis methods for clinical trials. S-Plus is available for Windows and Unix operating systems.

Mathematica

Mathematica can perform symbolic calculations in algebra, calculus, and higher mathematics; numerical calculations of very high precision; and detailed 2D and 3D visualizations. Mathematica is available for Windows, Mac, and Unix operating systems.

Pricing and Licensing Information

The following table outlines the general cost for license and maintenance fees. These fees include upgrades to software. The fees allow a user to download a second copy on their home computer if and only if they are the exclusive user of the software. Please note that fees might be different for specific situations and/or requirements.

Software	Operating System	First Year Fee	Renewal Fee	Download Home Copy
SAS	Windows, Mac	\$640	\$640	no charge
SAS	Multiuser, Unix, NT (per machine/per user¹)	\$480/\$160	\$480/\$160	NA
SAS JMP	Windows, Mac	\$600	\$300	no charge
SAS StatView	Windows, Mac	\$500	NA	no charge
SPSS	Windows, Mac	\$640	\$325	no charge
SUDAAN	OS/390, Windows	\$150	\$150	no charge
S-Plus	SIngle User Windows, Unix	\$1000	\$220	no charge
S-Plus	Multiuser, Unix	\$2600	\$500	no charge
S-Plus	Multiuser, NT	\$1440	\$220	no charge
Mathematica	Windows, Mac, Unix	Mathematica is available at a 48% discount off the GSA list price. CIT aggregates purchases, and bills customer accordingly. Please call TASC for pricing.		

¹ The charge for Unix-based SAS is \$480 per machine license and \$160 for each user account on that machine.

NA Not available.

Obtaining Licenses from CIT

The benefits to obtaining statistical software licenses through the CIT's Software Distribution Project (SDP) include lower cost and access to documentation. Because CIT negotiates multi-license contracts with the vendors, the cost for an individual license is lower than if purchased independently. Using SDP also reduces the overhead administration costs of negotiating contracts for multiple users. (See the article on the SDP in this issue.)

Technical Support and Assistance

Licenses

To obtain software licenses and support, please contact TASC at (301) 594-6248, or send e-mail to *tasc@nih.gov*.

Support

CIT customers have access to TASC's advanced support team (AST). The AST provides training and technical support in the use of statistical and mathematical software, as well as one-on-one office consultations. Contact AST via TASC—Monday through Friday from 7:30 A.M. to 5:00 P.M. Or visit the AST Web site.

Training

CIT training courses are listed on the Web [http://training.cit.nih.gov/].



Modem Connections of 19.2 Kb Per Second Are No Longer Supported

Some modems support the use of the V.32terbo modulation technique to provide RJE and SNA connections at 19.2 kilobits per seconds to the OS/390 South system. Since it never became a standard protocol, this modulation technique will no longer be supported by the NIH Computer Center after August 5, 2001. This change should not have any impact on users since modems generally have the ability to negotiate a mutually agreeable connection, and should connect successfully with a different speed/protocol.

If you encounter a problem, please call TASC at (301) 594-6248 – a communications specialist will help resolve your problem.



TASC—Technical Support Now Extends to NIH Telecommunications

CIT's Technical Assistance and Support Center (TASC) now provides first level technical support for NIH telecommunications—including NIH telephone systems and services (e.g., ISDN, voice mail, cellular phones, 104 pagers, videocast, calling cards, NIH Telephone Book, video bridging, FTS 2001, video/audio conferencing), as well as cable infrastructure. Telecommunications is the latest addition to the many areas of support that TASC already provides to the NIH community.

Telecommunications support is provided to users who are ordering new equipment and services, requesting repair or maintenance for existing equipment, needing help using their equipment, or who want information on new products. Telecommunications support can be reached through **GO-CIT** – (301) 594-6248 – where specialists will be available to assist users in resolving their issues.

If you have any questions about our services or the changes, please contact Lesa Jones, Chief, Technical Assistance and Support Section, at (301) 594-2423, extension 253.



"Ask TASC"—About Telephone Service

TASC receives many calls each day from customers who are experiencing similar problems. In "Ask TASC" we share with you some frequently-asked questions—and our answers. The following frequently asked questions may be helpful.

Q: What's the difference between a DelPro order and a Telephone Service Request form (TSR)?

A: DelPro orders are forms submitted by an administrative officer (AO) who authorizes the purchase of items. Examples include: purchasing telephones/TTY equipment, installing phone jacks, LAN drops, headsets, moving phone numbers and/or sets after hours. The cost for a DelPro submission is \$100.00.

TSRs are *free* and should be used when your request does *not* have a cost involved. Examples include: phone moves, phone-feature changes, voice-mail requests, and changes to secondary numbers.

Q: How do I obtain a TSR form? Is there a Web site?

A: TSR forms can be obtained from the "Request Forms" Web page [http://www.cit.nih.gov/dnst/DNSTweb/request.html] or call GO-CIT – (301) 594-6248. A TASC consultant can fax the form to you.

Q: When filling out a TSR, what is the BAC Number or Location Group Number?

A: The BAC (billing account code) and Location Group Number can be provided by the AO. The AO's signature is required once the TSR has been completed.

Q: I want to get a new ISDN phone. Do I submit a TSR for that?

A: No. Since there are charges for the new phone set and labor, your AO will need to submit a DelPro request.

Q: How do I prevent my other line from ringing?

A: In order to have a number silenced, a TSR will need to be submitted.

Q: How can I change the number of rings before it transfers to voice mail?

A: You will need to submit a "voice mail system quick change request form," which can be obtained from the "Request Forms" Web page [http://www.cit.nih.gov/dnst/DNSTweb/request.html].

Q: I have a message on my phone but the light isn't on. What should I do?

A: You will need to call repair at 611 and submit a ticket. They will send a technician to fix your phone.

Q: The message light on my phone shows I have messages, but I do not have any unread voice mail messages. What should I do?

A: Picking up the handset and pressing *53 will extinguish the light.

Q: How do I request that my phone be moved from one office to another? Is there a cost for this?

A: This service is free, but a TSR form must be submitted. Other requests that require submission of a TSR form include: phone moves (room-to-room or building-to-building), phone features (ringing patterns, international dialing), all voice mail requests, and disconnecting existing numbers.

Q: How can I forward my telephone number to another number?

A: For **non-ISDN** telephone numbers, activate the call forwarding by dialing *72, then the 5-digit telephone number you wish to forward to. To deactivate this, dial *73.

For **ISDN** (as noted on your teleset) telephone numbers, activate by dialing *52, then dial the 5-digit telephone number you wish to forward to. Then press the CFV button on the phone. The green light on the CFV means call forwarding is active. To deactivate, press the CFV button until the green light disappears.

Q: Can I move my ISDN, Merlin or Tone Commander phone myself?

A: No. You should fill out a TSR requesting the phone move. The phones will not work again if they are simply unplugged from one jack and plugged into another. A technician is required to complete the move.

Additional information on telecommunications is available on the Web [http://www.cit.nih.gov/nw-tc.html. If you have any questions, suggestions or ideas that you would like to see in the next edition of "Ask TASC," please send the information to *TASC@nih.gov*.

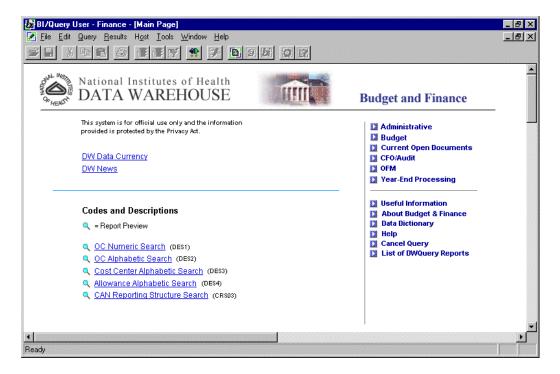


Check Out the NIH Data Warehouse—There Is Always Something New

The NIH Data Warehouse (DW) continues to evolve and grow. We have updated the DW*Query* interface and Government Purchase Card Reconciliation application. Fellowship Payment will soon be added to the Human Resources business area, and a new Technology Transfer business area is under development.

DWQuery – New Look to the Web Pages

In an ongoing effort to update the Data Warehouse, we have extended the Data Town Web interface to every business area under DW *Query*. This consistency in design ensures a seamless transition throughout the DW Web site and makes the system easier to use.



In addition, new links have been added to the DWQuery Web pages:

DW Data Currency - lists all business areas with the date last updated o **DW News** - includes articles on new applications, important issues, training, and system updates About Business Area - describes the data sources, tables, and reports for that 0 particular business area **Useful Information** - explains how to save user created queries, submit user created queries and export query results List of DWQuery Reports lists all of the NIH-defined reports for each business area, gives a description of each report, and links to a preview image of each report

Government Purchase Card Reconciliation - Enhancements

The DW purchase card reconciliation application has been improved. This tool offers the ability to move back and forth between the ADB Web and the NIH Data Warehouse to view purchase log and bank transactions information. As soon as a user updates a log item on the ADB, the updated information can immediately be viewed on the Data Warehouse using the purchase card reconciliation application.

The following improvements and new features make this reporting and analysis tool even easier to use:

- o column headers remain visible on the screen when the data is scrolled
- o the bank transaction month is now consistent with the ADB's bank review cycle
- o transaction links are in a more prominent location (on the left side of the screen)
- o new information links include a glossary of terms, information page about the data, and helpful hints on using the purchase card application

New Areas Under Development

• Human Resources Business Area – "Fellowship Payment" Coming Soon

The "Fellowship Payment" activity is in the final development stages and will be available for use in the near future. This activity offers the same information that is contained in the FPSII system. Fellowship payment provides a wide variety of information about fellows at NIH including the following:

o bligations

 includes insurance and stipend amounts for new awards, renewals and transfers

 o monthly pay information

 displays a history of each fellow's monthly payment
 includes specialty allowances, and a list of stipend periods for each fellow

 o fellow movement tracking

 includes transfers from one node to another, transfers within the same IC, transfers from one IC to another, program type changes, terminated awards, and renewed awards
 displays information on non-U.S. permanent residents, citizenship status, and work location

certifying official

- lists all fellows for a specific approving official, sponsor, and

• Technology Transfer Business Area – Being Developed

administrative reports

The new business area in development for Technology Transfer information will provide comprehensive reports on inventions, inventors, licenses, patents, work orders, and work order invoices. This reporting and analysis tool will be particularly useful for technology development coordinators, budget officers, and other managers. They will be able to identify relationships between inventions and inventors, inventions and licenses, inventions and patents, and patent prosecution costs. Technology Transfer will contain one year of current data and up to 10 years of historical data from the invention tracking system (ITS). The following report categories will be included:

invention
 provides reports about inventors, invention title, and licenses or patents that are associated with an invention
 patent
 includes information about patent status and unlicensed patents
 displays the status of signed license agreements and the associated inventions
 search
 allows the user to view information based on E-number, case number, patent number, invention title, and research type
 work order invoice
 offers detail information about patent prosecution including the status and expense

More Information

Additional information on the Data Warehouse enhancements mentioned above, or any future plans and releases, is available on the Web page [http://datatown.nih.gov] – use the link to "DW News." If you have any questions or concerns, please call TASC at (301) 594-6248.



New Shadow Direct ODBC Driver for Windows

A new version of the Neon Shadow Direct ODBC driver for Windows (2000, NT and 9x) is now available. The Neon Shadow Direct ODBC driver is software for connecting client workstations to DB2. Any ODBC-capable client software such as spreadsheets, decision support tools and development tools can connect directly to DB2 via Neon Shadow Direct.

The new driver can be downloaded from the Web [http://silk.nih.gov/dbtek/cliserv]. For drivers on the Macintosh or Unix platforms, please call TASC at (301) 594-6248 and ask to speak to someone in the Database Technologies Unit.

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PGATEs Are No Longer Required for ADB Access on the South System

The upgrade of IMS to Version 6 on May 21 enabled CIT to redesign the IMS security environment and eliminate the requirement for PGATEs, which linked user account/initials to internal IMS control functions. With the redesigned security environment in IMS Version 6, anyone with valid account, initials and password can access the ADB (which has its own userid/password security).

Since PGATEs are no longer necessary, they will be removed from "Resource Matrix" section of Web Sponsor.



New CIT Service for Documentation—"View / Print On Demand"

Exciting new options are available from the CIT publication ordering service. In many cases, you will now be able to choose how to obtain the manual—viewed online (via Acrobat), printed to your local printer, or printed centrally. This new service will enable you to get up-to-date documentation quickly and easily.

The major change is that IBM manuals and many CIT-written publications will now be printed on the NIH Computer Center's high-speed, OS/390 laser printers. Thus the CIT Technical Information Office (TIO) will no longer have to stock a large quantity of vendor-produced manuals.

Old System (Still Available)

You order a hardcopy manual as you did before—by going to the CIT publications Web page [http://publications.cit.nih.gov], entering your account/initials combination and RACF password or Unix username/login, and selecting a manual from the appropriate category. As in the past, you can have it mailed or placed in your output box. In addition, you can also stop in at CIT's help desk, TASC (building 12A, room 1011) where a small supply of popular IBM manuals will be kept on-hand. Other walk-in requests will be placed in an output box or mailed within 24 hours.

New System

The CIT publications page — under "View, Print & Order Publications" — lists the manuals available, including IBM manuals and many CIT-written manuals. Clicking on a title will take you to a page that lists the "Available Formats" for that document.

Viewing and Printing Online

If you select "View" (via View/Print on Demand), clicking on the monitor icon will take you to the document in PDF format via Acrobat reader.

After viewing the document (in PDF format), you can either save it to your workstation or print it on a local printer.

• Printing at the Central Printers

If you select "**Print**" (*via View/Print on Demand*), you will be prompted for a "User name" (CIT account/initials combination) and RACF "Password." A print-order page appears, where you can order printing of 1-to-10 copies of the manual. Copies can be mailed or delivered to your output box (or another mail or output box specified). These manuals will be printed on the high-speed laser printers using two-sided, three-hole punched paper.

The first copy of each manual is free. If you have printed the manual before—or if you order more than one copy—an alert message pops up to notify you of the charges. After placing an order, you will see an online confirmation message. The manual(s) will be placed in your output box, or mailed within 24 hours.

Ordering Other Manuals

Some manuals (specific vendor manuals and older CIT manuals) are only available through the old system. You will need to supply your CIT account/initials and password, or Unix username/login. You will be able to select the delivery method—to output box, by mail (within 24 hours), or personal pickup at TASC (building 12A, room 1011).

Subscription Service Has Changed

The old subscription service—for automatic updates of manuals—has also undergone a change. You can now subscribe to a publications interest list, and receive e-mail notification whenever a new manual is available. Go to the NIH Listserv page for publications [http://list.nih.gov/archives/cit-doc-renew.html], and select "Join or leave the list." Updates will no longer be distributed unless they are specifically requested.



Announcing Rates for the Titan System

Titan—a standardized platform for customer applications to replace the OS/390 North and South systems—is now accepting work. Although the transition from the North system to Titan is not yet complete, all North system applications (e.g., ACS/WYLBUR, TSO, ADABAS) are available on Titan. System applications unique to the South system (e.g., DB2, IMS, TSO, NIH WYLBUR) will be added in early fiscal year 2002.

Rates for the applications currently available on Titan are:

Titan Rates			
Batch CPU (9672 Gen3)	\$.90 / second ¹		
Batch I/O (SIO)	\$.15 / 1,000		
Interactive CPU	\$ 1.04 / second ¹		
Interactive I/O (SIO)	\$.15 / 1,000		
DASD storage	\$.045 / MB / day ²		
Tape mount	\$.50 / mount		
Tape storage	\$.03 / tape / day		
Printing (page)	\$.06 / impression		
Printing (labels)	\$ 1.15 / 1,000 lines		
RJE	\$100 setup fee		
	\$ passthrough for line charge		
Model 204 and ADABAS	charged by CPU usage and I/O at either the		
interactive or batch rate, as appropriate			

A shift discount of 50% applies to both batch and interactive processing. Prime shift is 7:00 A.M. to 5:00 P.M, Monday through Friday – the discount period is all other times.



² DASD storage rate will be reduced in stages, beginning in August 2001. Initial Titan rate reflects DASD storage rate on North.

North System Users—Two Invoices, One Envelope This Summer

Beginning with the billing for June, North system users may receive two invoices each month—one for North system usage and one for Titan usage. After the end of the transition on July 31, some additional system changes transparent to user applications will be required before the billing can be consolidated into a single invoice. We anticipate that these changes will be completed (and a single invoice used) by September 2001.

During the two-invoice period, the familiar North system invoices will include all charges for online disk storage (i.e., DASD), tape storage, and microfiche. The Titan system invoices will include charges for other services (e.g., processing, printing) in a slightly different format.

Sample Titan Invoice

National Institutes of Health Center for Information Technology Financial Management Office

Summary of Charges for May, 2001

Account: AAA Prepared: 06/06/2001

CAN: XXXXXXXX
Organization: CSRS/NDIA
Title: CSRS – SYSTEM TESTING

Billing Coordinator
Name (telephone number)

Alternate Billing Coordinator
Name (telephone number)

Address Address

Bethesda, MD 20879 Bethesda, MD 20879

	CURRENT MONTH	FISCAL YEAR
OS/390		
Batch Processing	\$ 35772.90	\$ 35772.90
Interactive	7614.28	7614.28
Printing	474.25	474.25
Tape Storage/Mount	394.00	394.00
ADABAS	210.24	210.24
Model 204	127.94	127.94
TOTAL FOR OS/390	44593.61	44593.61
Miscellaneous Services		
Firewalls	2000.00	2000.00
Verity Searches	118.20	118.20
TOTAL FOR Miscellaneous Services	2118.20	2118.20
TOTAL FOR ACCOUNT AAA	\$ 46711.20	\$ 46711.20



New Prices for Microfiche Processing Begin October 1, 2001

Effective October 2, 2001, the prices for processing microfiche both on the Titan and South systems will change to:

\$ 2.00 per original\$.25 per duplicate\$ 2.50 minimum per job

This change will more closely align microfiche charges with the actual costs of producing them. In addition, it is a necessary step for creating a single rate structure for all OS/390 services.



Titan Transition—End of the North System and Tips for North Users

The CIT initiative to merge the OS/390 North and South systems into a single, standard system— Titan—is in full swing. North applications owners have been testing and moving their applications since January, and one major application has been in production on Titan since early March.

North System Gone as of August 1

At midnight on Tuesday, July 31, 2001, the North will be shut down. North users should migrate their production applications to Titan now. If you have not begun testing, we strongly urge you to begin this process now and not wait until the last minute.

- Database application owners
 Contact your CIT DBAs for assistance in establishing a test environment and in migrating your files.
- Other application owners
 Contact TASC if you need assistance.

CIT has personnel available to assist North customers with their migration issues, so avoid the rush and contact us today.

Issues Identified During North Transition

Here are some tips to help your move to Titan.

VPS Remote Printers

VPS TCP/IP printers can be set up to accept print from both the North system or Titan. See the article on VPS in *Interface* 216 (December 15, 2000).

Some users have encountered problems with VPS SNA remote printers. Because of hardware restrictions, SNA printers can only be attached to one system at a time—either North or Titan. To avoid problems—while you are testing on Titan—you should route the output to print on the North, by including a

/*ROUTE PRINT PCCJES2.RMTnnn

or by using the DEST field in IOF to reroute your job.

When most of your work has moved to Titan, contact CIT to switch the printer to Titan. At that point you will need to reverse the situation above—that is, if you run a job on the North system, you will need to route it to print on Titan by routing it to NIHJES2.RMTnnn.

If you share the printer with others, you will need to coordinate the printer switch with them.

IBM 3835 Central Printer

The North system 3835 printer is not moving to Titan. Instead, jobs that would print on this printer (by specifying BURST=Y or FORMS=x290) will be directed to the 3160 cut-sheet printer—if you have a North JOB statement.

This switch should be transparent – the output produced by the 3160 should be identical to that produced by the 3835. However, if you use a special formdef or pagedef, you may need to have these definitions installed on Titan. Contact TASC at (301) 594-6248, and ask to speak to a Titan consultant.

BOX Numbers

All Titan USERids propagated from the North system have a default output box number prefaced by a P (for Parklawn). If you run a batch job on Titan, the output will be routed to your Parklawn box number unless you specify otherwise. However, if you include a /*BOX statement in your JCL, you need to include the P, since the /*BOX will override any default box number.

• Increased Region Requirements

Because the Titan operating system is several version levels higher than the North system, some batch jobs are experiencing increased region requirements. If your job fails because of region, simply increase the region and rerun.

USERid Length Implications

You need to consider applications that capture the RACFid. If your application is expecting to handle 3 characters, it may need to be modified to accept 3 or more characters. On Titan, USERids/RACFids/TSOids are interchangeable and variable in length—from 3 to 7 characters.

To ease migration, all North TSOids (\$iii) were brought over to become the USERid/RACFid/TSOid on Titan. South system USERids propagated to Titan will be 7 characters in length. Once the North and South systems are completely migrated to Titan, USERids can be any unique alphanumeric character string from 3 to 7 characters in length.

Tape Expiration

On Titan, you define the expiration date for tape data at the time you create it by coding an expiration date or retention period in your JCL. JCL that creates a new tape data set and does NOT include expiration information (EXPDT= or RETPD=) will FAIL.

Although most North system users code tape expiration dates, Titan requires tape expiration dates since the 5-day default does not exist.

Tape Security

Unlike the North and South systems, tape data set security on Titan is handled by RACF permissions on a data-set rather than volume basis. The RACF generic profiles in place on Titan apply to *both* tape and disk data sets. Since option P.17 (TPERMIT) in ISPF—for protecting tapes on a volume basis—does not exist on Titan, users may need to modify their RACF profiles to provide the same level of access to tape data as they now have.

JCL

To simplify the transition to Titan, CIT uses software to automatically recognize North and South system JOB statements and JES2 /* statements, and convert them to execute the jobs in the appropriate Titan job class and at the appropriate time.

If you change your North or South JOB statement however, you will need to change your JES2 /* statements as well as any statements that direct output to the 3835 printer to conform to Titan format since they will no longer be recognized properly. (See section above on the 3835 central printer.)

Assistance

More information on the above issues is available on the Titan Web page [http://silk.nih.gov/silk/titan]. If you would like assistance moving your North application to Titan, call TASC at (301) 594-6248 and ask to speak to a Titan consultant.



South System—Keywords to Be Phased Out, RACF to Handle All Data Security

More than thirty years ago — before mainframe security facilities were commercially available — the NIH Computer Center developed the "keyword" subsystem. This system still exists on the OS/390 South system today. In 1983, IBM's resource access control facility (RACF) was introduced at NIH to provide users with a more robust and flexible option for data set protection. In 1994, RACF replaced the logon portion of the keyword system. It is now time to phase out the keyword system entirely in favor of RACF. The keyword facility will not exist on Titan.

If you still rely on keyword protection of your data you should begin preparing for RACF. First you will need to examine your application and data security requirements, then become familiar with RACF's capabilities. To assist you, CIT will provide a series of articles and seminars focused on using RACF as your data protection mechanism. The first training will be a class titled "Titan Transition—What's My Keyword?" on July 12, 2001. You can enroll online [http://training.cit.nih.gov], or by calling TASC at (301) 594-6248.



RACF Password—A Six-Character Minimum to Be Required on OS/390

Beginning on July 16, 2001, CIT will begin enforcing a minor change to RACF passwords, as a result of the auditors' security recommendations. RACF passwords must have a minimum of six characters on all OS/390 systems—North, South and Titan (which currently have different minimums).

Your current RACF password (even if less than six characters) will still work after July 16. However, when your password expires, you will be required to enter a new one between six and eight characters long. RACF passwords expire every six months.

Guidelines for Passwords

As always, CIT recommends you select passwords carefully.

- o Passwords should not be the same as login names or account/initials combinations.
- o Use a "mnemonic" password. Take a favorite saying or phrase and use the first letter of each word to create the password.
- o Do not use passwords with personal associations (e.g., phone numbers, license plates, proper names).
- o Devise passwords that consist of both letters and numbers. Take advantage of national characters (@#\$), and embed them in your password.
- o Don't use obvious sequences, such as simple keyboard strings—or any of these spelled backwards.



CIT Computer Training Program—Summer Term Begins

The CIT Training Program is developing the summer term of computer classes for NIH employees — many popular courses will return and there will be a number of exciting new offerings. The full class list is available on the Web [http://publications.cit.nih.gov/].

New Classes

One new class is particularly relevant for current users of the OS/390 South system, "Titan Transition—What's My Keyword." Charlotte Griffin will take you through specifics of the transition with an emphasis on the use of RACF in the new system.

Among the exciting additions are two new Oracle classes in early July. Uben Sandin from NIGMS will teach "Oracle Forms." Djamel Medjahed of NCI will offer "Oracle SQL Plus," a class that teaches participants to manipulate SQL commands and perform other tasks with Oracle. These new courses are complemented by established database courses such as "Relational Database Overview" and "Using SQL to Retrieve DB2 and Oracle Data."

Two additions to the Internet offerings will interest those who develop or maintain a Web presence at NIH. For a fast and easy way to create Web pages, Joy Pinkney of CSR will offer a class on FrontPage 2000. For experienced Web page developers who want to integrate a database with a Web presence, Curt VonAnken of NCI will teach "ColdFusion Fundamentals." For beginners, we will continue to offer multiple sections of "Introduction to HTML," covering the syntax and structure of Web pages.

Three new classes have been scheduled on Section 508 accessibility for Web pages: an introduction, technical implementation, and procurement.

Thanks to Our Volunteer Instructors

This is a particularly exciting term because we have teachers from so many parts of NIH. Our instructors are greatly appreciated for volunteering their time and knowledge to the NIH community. We are always delighted to bring more people into the program. If you have something that you think you could teach, please feel free to call and let us know. We will work with you in getting you the support needed to make the experience a rewarding one.

As always, classes are available free of charge to NIH employees and other users of NIH computing facilities. The courses are offered to help individuals become more efficient and effective in using computing, networking, and information systems. You can obtain full course information or register online [http://training.cit.nih.gov/] for classes beginning on June 20. You are always welcome to call TASC at (301) 594-6248 to discuss course registration, teaching a class, or other training issues.



Training Calendar—Summer 2001

June		
212	SAS Programming Fundamentals I	6/20 - 6/21
640	Advanced Features of HTML	6/22
213	SAS Programming Fundamentals II	6/25 - 6/26
903	Avoiding Pitfalls in Statistical Analysis	6/26
182	DWQuery: Property Management	6/26
877	BRMUG - Macintosh Users Group	6/26
821A	Experience the New Technology of Office XP	6/27
346	KMIG - Knowledge Management Interest Group	6/27
651	Fundamentals of Cold Fusion	6/28
823A	Creating Presentations with PowerPoint	6/28
824A	Advanced Presentations with PowerPoint	6/29

July		
823B	Creating Presentations with PowerPoint	7/3
637A	Introduction to HTML	7/5
180A	DWQuery: Budget & Finance	7/9
301	Relational Database Overview	7/10
675	WIG - World Wide Web Interest Group	7/10
990	Genetics Computer Group (GCG) Sequence Analysis	7/10 - 7/12
339	Oracle Forms	7/11
409	Basic Security for Unix Workstations	7/11
240	Producing Graphs with SAS	7/11 - 7/12
102	Titian Transition - What's My Keyword?	7/12
700	Introduction to the Helix Systems	7/12
193A	DWQuery: Human Resources	7/13
823C	Creating Presentations with PowerPoint	7/13
883	Macintosh Tips and Techniques	7/16
785A	Section 508 Compliance for Procurement Personnel	7/17
602	Section 508 and Web Accessibility: Introduction	7/17
603	Section 508 and Web Accessibility: Technical Implementation	7/17
637B	Introduction to HTML	7/17
190	DWQuery: Human Resources Fellowship Payment System	7/18
337	Oracle SQL Plus	7/18
785B	Section 508 Compliance for Procurement Personnel	7/18
366	An Introduction to TCP/IP	7/18
644	Real World XML: Usage in Bio-Tech Applications	7/19
824B	Advanced Presentations with PowerPoint 2000	7/19
160A	Budget Tracking	7/19
351	Introduction to Networks	7/20
340	NIH Enterprise Directory (NED): Administrative Officer and Technician Training	7/20
637C	Introduction to HTML	7/20
197	DWQuery: Technology Transfer	7/24
707	Understanding Your CIT Billing	7/24
704	FasTrac Overview	7/24
877	BRMUG - Macintosh Users Group	7/24
372	Using Secure Email in the Exchange Messaging Environment	7/25
831	Outlook 2000 Tips and Tricks	7/25
970	NIH Biowulf - a Supercluster for Scientific Applications	7/25
373	LISTSERV Electronic Mailing Lists: Hands-On Workshop for General Users	7/25
241	Creating Maps with SAS	7/25
346	KMIG - Knowledge Management Interest Group	7/25
983	Genome Analysis via the Web	7/26
374	LISTSERV Electronic Mailing Lists: Hands-On Workshop for List Owners	7/26
867	Introduction to the Macintosh Operating System	7/26
173	DWAnalyze: Human Resources	7/26
712	Cost-Benefit Analysis	7/27
195	DWQuery: Staff Training & Development	7/30
981	Introduction to Partek Pro 2000 for Microarray Data Anaysis	7/31
642	Hands-On Web Animation	7/31

865A	Introduction to Programming	7/31 - 8/3
August		
861	Installing and Using VirusScan	8/1
821B	Experience the New Technology of Office XP	8/1
191	DWQuery: Research Contracts & Grants	8/1
385	Introduction to the Bluetooth Protocol	8/2
708	Account Sponsor Orientation	8/2
377	Parachute for Windows 98/95	8/6
823D	Creating Presentations with PowerPoint	8/6
945	Getting Started with Molecular Graphics	8/7
234	Basic SPSS	8/7 - 8/8
400A	Fundamentals of Unix	8/7 - 8/9
636	Introduction to FrontPage 2000	8/8
871	Macintosh OS X - What's New for Users	8/9
349	Remedy - Customer Service Tool	8/9
170	DWAnalyze: Budget & Finance	8/13
843	Hands-on PC Hardware	8/13
547	C Language	8/13 - 8/16
381	Multilayered Switched Networks	8/14
675	WIG - World Wide Web Interest Group	8/14
863	Microsoft Visio 2002 Overview	8/15
160B	Budget Tracking	8/15
824C	Advanced Presentations with PowerPoint 2000	8/16
637D	Introduction to HTML	8/17
823E	Creating Presentations with PowerPoint	8/20
714	Investment Review	8/20
186	DWQuery: Travel	8/20
308	Using SQL to Retrieve DB2 and Oracle Data	8/21 - 8/22
359	Introduction to Wireless Communications	8/23
991	Advanced Sequence Analysis Using the Wisconsin Package (GCG)	8/23 - 8/24
841	Meet Your PC - What's Inside the Box	8/27
400B	Fundamentals of Unix	8/27 - 8/29
865B	Introduction to Programming	8/27 - 8/30
803	Windows 2000 Professional	8/28
637E	Introduction to HTML	8/28
877	BRMUG - Macintosh Users Group	8/28
611	Seeking Information on the Web	8/29
346	KMIG - Knowledge Management Interest Group	8/29
369	Network Security and Firewalls	8/30
310	Using Microsoft SQL 2000 for Data Mining	8/30
180B	DWQuery: Budget & Finance	8/30

Dates to Remember

Now ...

- CIT launches new "view / print on demand" service for publications. SNT
- NIH portal—for customizing access to NIH Information—is available.
- Help with "508" accessibility is available at CIT, NCI and NLM.
- NIH Business System (NBS) has a new name NBRSS.
- TASC now provides support for telephone and telecommunications services.
- Rates have been announced for Titan. SNT
- Invoices will have a new look. T
- PGATEs are no longer required for ADB access. s
- *Interface* subscribers now receive online publication, *Interface Online*.

Software Available

- VirusScan (4.5.1) is now available for downloading from the Web.
- NBARS—TSM software and support are available for Red Hat Linux 6.2.
- New Neon Shadow Direct ODBC driver is available for Windows.
- CIT licensing agreements have been signed with Microsoft and Adobe.

Soon ...

July 1	Six little-used, "pin-hole" labels will be discontinued. STE [See issue 218.]
July 16	A six-character minimum for passwords will be enforced. SNT
July 31	Transition to Titan should be completed. NT
August 5	Support ends for modem connections of 19.2 Kb per second.

Later in 2001 . . .

October 1	"Off-hours" discount will be reduced in fiscal year 2002. S [See issue 218.]
October 1	Prices for processing microfiche will change. ST
November 2	Disaster recovery test at hot site. STE [See issue 218.]

- S OS/390 South System
- N OS/390 North System
- T OS/390 Titan System
- E Enterprise Open System

Articles in other issues of *Interface* appear in brackets [].



Popular Web Sites

Service	Web Address
National Institutes of Health	http://www.nih.gov
Center for Information Technology	http://cit.nih.gov
NIH Data Warehouse	http://datatown.nih.gov
Molecular Modeling	http://cmm.info.nih.gov/modeling
PUBnet	http://pubnet.nih.gov
NIH Computer Center Systems	http://datacenter.cit.nih.gov
ALW	http://www.alw.nih.gov
Helix Account Information NIH Biowulf Cluster	http://helix.nih.gov http://helix.nih.gov/register.html http://biowulf.nih.gov
Enterprise OS/390 Titan System OS/390 South Problem Reporting RACF SILK Web DB2 and Oracle OS/390 North RACF SILK Web Coordinator Enterprise Open System (EOS) NT Applications Servers	http://datacenter.cit.nih.gov/enterprise.html http://silk.nih.gov/silk/titan http://datacenter.cit.nih.gov/mvs http://datacenter.cit.nih.gov/srt http://silk.nih.gov/racf http://silk.nih.gov/dbtech http://silk.nih.gov/dbtech http://datacenter.cit.nih.gov/mvs http://silkad.nih.gov/racf http://silkad.nih.gov/coordinator http://silkad.nih.gov/coordinator http://datacenter.cit.nih.gov/eos http://datacenter.cit.nih.gov/nt
NIH Backup and Recovery Service	http://silk.nih.gov/silk/nbars
Oracle License Information Oracle Database Servers	http://silk.nih.gov/silk/oracle http://silk.nih.gov/silk/citoracle
Publications	http://publications.cit.nih.gov
Web Sponsor Account Information	http://silk.nih.gov/sponsor/homepage
Customer Services	
Accounts	http://dcs.cit.nih.gov/accounts/ca.htm
Computer Training	http://training.cit.nih.gov
TASC	http://dcs.cit.nih.gov/tasc/tasc.htm
Network Systems	
LISTSERV	http://list.nih.gov
NIHnet	http://www.net.nih.gov
Parachute	http://parachute.nih.gov

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Jeanne Krause, DCSS

Robert Lomax, DCS

Judy Mahaffey, DECA

Laura Mulieri, DCS

Lanny Newman, OD/OPEC

Kathy Scalzi, DCSS

Andy Schwartz, DCSS

Norma Stern, DCSS

Ed Suiter, DCSS

Molly Vanderbilt, OD

Ginny Vinton, DCSS

DCS Division of Customer Service

DCSS Division of Computer System Services

DECA Division of Enterprise and Custom Applications

NIH/OD NIH Business Systems, Executive Office

OD CIT, Office of the Director

OD/OPEC CIT, Office of Planning, Evaluation, and Communication

NIH Computer Center Hardware and Software

ENTERPRISE SYSTEMS

OS/390 (MVS) SYSTEMS

OS/390 Systems Hardware

The OS/390 facility is an integrated multiprocessor complex, interconnected by shared disk storage. There are two IBM 9672 model R44 systems, each with 4 processors. Each system has a gigabyte (GB) of memory and a complement of several hundred peripheral devices.

The peripheral devices include:

ILK 3762 Ethernet interface for TCP/IP 9392-B13 disk drives (RAMAC)

3480 cartridge tape drives (18 track, 38,000 BPI)

3490E cartridge tape drives (36 track, 38,000 BPI)

3494 automated tape library (ATL)

3422 tape drives (6250/1600 BPI)

STK 9310 (Powderhorn) ATL

STK 9490 (Timberline) cartridge tape drives (36 track, 38,000 BPI)

Wolfcreek ATL

STK virtual tape storage subsystem (VTSS)

STK 9840 ultra high performance magnetic tape drives

3900 laser printing subsystems

3160 cut-sheet laser printers

3835 impact printers

4245 impact printers

3172 channel to Ethernet interface

3745 communications controllers

5665 NCR communications controllers

Peripherals are available to all processors, providing nonidle redundancy and minimal disruption of service in the event of any subsystem or component failure.

IBM 9672-R44 Serial Numbers

CP0=044625, CP1=144625, CP2=244625, CP3=344625 CP0=044626, CP1=144626, CP2=244626, CP3=344626

OS/390 Systems Software

N = North System, S = South System, T=Titan

OS/390 Operating System

The IBM OS/390 Operating System using job control language as the user interface and the Job Entry Subsystem Version 2 (JES2), (N, S, T). A Unix-based component of OS/390 is installed (S, T).

SILK Web Facilities

Customized, public, and secure servers available for general use. SILK provides online services that include: directory and account information, management functions, RACF processing, data set listing, batch job submission, and e-mail through a Web interface (N, S, T).

Interactive Systems

CICS (N, T), ISPF (N, S, T), TSO (N, S, T), NIH Extended WYLBUR (S), and ACS WYLBUR (N, T)

Databases

ADABAS (N, T), Model 204 (N, T), DB2 (S), and IMS (S)

Language Processors

APL (N), COBOL/370 (N, S, T), FORTRAN 77 (N), VS FORTRAN (S, T), PL/I (N), PL/I for OS and VM (S, T), REXX (S, T), High Level Assembler (N, S, T)

Graphics Systems

SAS/GRAPH (N, T)

Scientific Statistical Systems SAS (N, S, T), SPSS (N, S, T)

Simulations Systems

Dynamic Model II (DYNAMO II) (N), General Purpose Simulation System (GPSS) (N)

Other

File management systems - VISION:Builder (N, S, T), VISION:Report (S, T), BookMaster document markup system (N), BookManager online documentation system (N, T), CONNECT:Direct for online financial transactions (N, S, T), VPS—VTAM Printer Support System (S, T)

Connectivity Products for Access to the OS/390 Systems

Terminal emulation and full connectivity software for PC and Macintosh clients for telnet and dialup connections. Supported software packages include MS-Kermit (S), QWS3270 PLUS (N, S, T), NetTerm (TNVT) (S), and WS FTP Pro (N, S, T).

NIH COMPUTER CENTER Hardware and Software

ENTERPRISE OPEN SYSTEMS (EOS)

Unix System Hardware

Compaq AlphaServer GS60 4 CPUs (500 MHz EV6) 4 GB RAM

Compaq/Digital AlphaServer 8400 4 CPUs (440 MHz)

4 GB RAM

Numerous Compaq/Digital AlphaServers: 1000s, 1200s, 2100s, and a 4100

Sun Enterprise 250 servers

Unix System Software

Tru64 UNIX Operating System
Sun Solaris Operating System
Installed Software (commercial)
DEC COBOL
DEC C
DEC C++
Netscape Enterprise Server
Oracle Web Application Server

WINDOWS NT/2000 APPLICATION SERVERS

Windows NT and Windows 2000 applications can be hosted on a series of servers that are carefully managed and monitored by CIT on a 7x24 basis. These are Compaq Enterprise class servers and storage arrays. This facility provides a computing environment that has been proven suitable for mission-critical, enterprise-wide applications.

Hardware

Database

Oracle

Compaq DL360 Dual- Intel Pentium III 800MHz Processors 512MB SDRAM expandable to 4 GB Storage: 2 Internal Drives - 9.1, 18.2, or 36GB - large storage arrays available

Size: 1U

Compaq DL380 Dual - Intel Pentium III 933MHz Processors 512MB SDRAM expandable to 4 GB Storage: 4 - 6 Internal Drives - 9.1, 18.2, or 36GB - large storage arrays available

Size: 3U

Compaq DL580

Quad - Intel Pentium III 700MHz/2MB Xeon Processors

1GB SDRAM expandable to 16 GB

Storage: 4 Internal Drives - 9.1, 18.2, or 36GB - large storage arrays available

Size: 4U

Compaq 8500

An 8 way (8 processor) - Intel Pentium III 700MHz/2MB Xeon Processors 2GB SDRAM expandable to 16 GB

Storage: 4 Internal Drives - 9.1, 18.2, or 36GB - large

storage arrays available

Size: 7U

Windows Application Software

NT 4.0 Server is our standard operating system, with Windows 2000 service in the near future.

Major components of the Microsoft BackOffice Suite of applications, with services such as Terminal Server, SQL Server, Exchange, and IIS, are supported in an enterprise-wide environment.

Other user specified and support software including:

NBARS—automatic backup/recovery services for distributed file servers

OTHER SERVICES

Oracle server software for use on several platforms with concurrent Oracle usage rights.

Site license agreements for distributing SAS for PC clients.

Central Email Service (CES) provides e-mail services for the NIH community.

NBARS, an OS/390-based service using TSM software, provides backup and recovery for distributed data.

The Disaster Recovery Program provides disaster recovery facilities and services for "critical" applications that run on the OS/390 systems and the EOS system.

NIH Computer Center Hardware and Software

HELIX SYSTEMS

The NIH Helix Systems comprise several systems configured in a unified scientific environment. The frontend SGI Origin 2000 system (with the network name helix) is used for general purpose tasks, such as reading mail, transferring files, accessing the World Wide Web through Netscape, and certain scientific applications. Additional systems offer special computation capabilities that enable compute-intensive scientific applications to run faster or more efficiently. An SGI PowerChallenge system (with the network name churn) augments helix by running specific scientific applications or user programs that require long execution times. The NIH Biowulf Cluster (with the network name biowulf) is a Beowulf parallel processing system designed and built by members of the Helix Systems staff, running the Redhat Linux operating system. A 32-processor SGI Origin 2000 system (with the network name galaxy) and a 16-processor SGI Origin 2000 system (with the network name quasar) are designed for the development and execution of high performance parallel applications. The Origin 2000 systems are jointly funded by the Division of Computer System Services (DCSS) and the Division of Computational Bioscience (DCB).

Helix Systems Software

In addition to the standard Unix tools for software development, text formatting, and network communications, software packages include:

Scientific Applications

GCG Sequence Analysis Package an extensive package of programs for nucleic acid and protein sequence analysis

Quest: interactive database search program for accessing the Cambridge Structural Database

BLAST: basic local alignment search tool for nucleic acid and protein sequences

Lrna: performs suboptimal folding on linear RNA sequences

CHARMm: models dynamic behavior and characteristics of molecular systems

Gaussian: performs semiempirical and *ab initio* molecular orbital calculations

Mathematica, MATLAB S-PLUS: interactive systems for numerical analysis and graphics featuring, respectively, symbolic manipulation, matrix computation, and statistical analysis

AVS: interactive tool for scientific visualization of images, volume data and geometrically defined objects

Interactive Data Language (IDL): an interactive program for analyzing and visualizing data

Fastlink: fast-executing computationally intensive general pedigree programs from Linkage

Fasta3: uses the Pearson-Lipman algorithm to compare a protein or nucleotide sequence against a sequence database (includes fasta, tfasta, tfastx, fastx, ssearch)

ClustalW: general-purpose multiple alignment program for DNA or protein sequences

Porpoise: alert service for new scientific literature that searches the weekly updates of the Science Citation Index Expanded and Social Sciences Citation Index databases

WHALES: automatic alert service for new sequences in the major nucleotide and protein databases

Biological Databases

GenBank: nucleic acid sequences

PIR: protein sequences

GCG: sequence databases for the GCG package

PDB: protein structures

Cambridge Structural Database: diffraction data from small organic and organometallic molecules

Programming Languages

C, FORTRAN, Lisp, and C++

Subroutine Libraries

IMSL: mathematical and statistical routines FIGARO: 2- and 3-d interactive graphics routines

Programming Tools

Static analyzer, debugger, and performance analyzer tools

Network Services

mail, pine, and Emacs rmail: electronic mail readers ftp: Internet file transfer utility

Kermit and zmodem: file transfer via modem

X Window System: supports common X clients such as *xterm*, and S-PLUS, Mathematica, MATLAB, and AVS applications

Netscape and lynx: easy access from NIH information servers and information servers worldwide

tin: newsgroup reader

WebTermX: Web browser plug-in that lets Windows PCs run the X Window System

Editors

vi, edt, and GNU Emacs: full-screen editors ed and ex: line editors

Helix Systems Hardware

The SGI Origin 2000 system (helix) consists of 8 processors based on the MIPS R12000 chip. Each CPU has shared access to 2 GB of memory.

The SGI PowerChallenge L system (churn) consists of 12 processors based on the MIPS R10000 chip. Each CPU has shared access to 2 GB of memory.

The 32-processor Origin (galaxy) utilizes MIPS R10000 processors and has a total of 8 GB of system memory. The 16-processor Origin (quasar) utilizes MIPS R12000 processors and has a total of 4 GB of system memory. On both galaxy and quasar the memory appears as a global shared memory to the programmer. Note that the memory in fact is distributed across 16 "nodes" on galaxy and 8 "nodes" on quasar. The technology used to make this distributed memory appear equally accessible from any processor is called ccNUMA (cache coherent non-uniform memory access).

NIH COMPUTER CENTER Hardware and Software

The Biowulf cluster consists of 112 dual-processor Pentium 450 MHz and 550 MHz nodes, most with 256 MB of memory and 8 GB of disk. Each node is connected to a fast Ethernet switch (100 Mb/s). For applications that can take

advantage of more memory and higher network speeds, some nodes contain as much as 1 GB of memory and others are connected to a gigabit speed network.

The Helix systems are restricted to NIH use.

ALW SYSTEM

The Advanced Laboratory Workstation (ALW) System is a general-purpose, open, distributed computing system. All Advanced Laboratory Workstations are interconnected by the NIH campus-wide network, which they use to share resources and access services. The AFS file system provides distributed file services.

ALW System Hardware

Client workstations
Sun SPARCstations
Silicon Graphics

File Servers

5 servers with combined storage of over 300 GB

ALW Application Software

Genomic sequence analysis packages Refer to http://www-bimas.cit.nih.gov/

Image processing

Analyze - medical image processing Khoros - abstract visual language MEDX - medical imaging processing Mathematics packages

Mathematica

Matlab

Molecular modeling software

Refer to http://cmm.info.nih.gov/modeling

Statistical packages

Prophet

SAS

S-PLUS

Office automation applications

StarOffice - integrated spreadsheet, word processing

and graphics

FrameMaker - desktop publishing

WordPerfect - word processing

Other software

Emacs - text editor

Gnu software and development tools

Internet Explorer - web browser

Netscape - web browser

PTR - problem reporting system for ALW

NETWORKS

NIHnet

a high-speed network backbone that interconnects NIH LANs, the Computer Center central servers—enterprise (OS/390, Open Systems, and Windows NT/2000 Application Servers) and scientific (Helix and ALW Systems)—and the Internet. The LAN protocols that are supported for NIHnet connectivity include TCP/IP, AppleTalk, and IPX. Users on NIHnet LANs with these protocols are provided with remote login and high-speed access, fast file transfer, and local and worldwide electronic mail connections. Dialup access to NIHnet is available through Parachute.

Internet

an international collection of networks, supported by major research institutions, that communicate with each other using TCP/IP protocols. The Internet offers file transfer, remote login (telnet) electronic mail, and World Wide Web connections.

NIHnet Mail Gateway

a set of gateways, allowing the exchange of electronic mail among users of all mail systems supported at NIH and between NIH users and other users on the Internet. (Note: not all mail systems support the exchange of attachments).

Computer Services Telephone Directory

Service	Office	Bldg/Rm	Telephone (301)
ENTERPRISE SYSTEMS (OS/390), U	Jnix, Windows NT/2000 Servers)		
Database Support	Database Systems Branch	12/2200	496-9158
IMS Support	Database Systems Branch	12/2200	496-6244
Help Desk	TASC	12A/1011	594-6248
New Applications	Application Services Branch	12A/4011	496-5524
Operating Schedule – OS/390 (recording)			402-2211
Security Investigations and Assistance	TASC	12A/1011	594-6248
Fax Number			496-6905
Security Policy	Application Services Branch	12A/4011	496-5524
Tape Library	Systems Operations Mgmt. Branch	12/1100	496-6021
SCIENTIFIC SYSTEMS (Helix and A	dvanced Laboratory Workstation)		
Help Desk - ALW**	TASC	12A/1011	594-6248
Help Desk - Helix	TASC	12A/1011	594-6248
Operating Schedule – Helix, EOS (recording)			402-2212
Operator - Helix		12/2200	496-6755
CONNECTIVITY SERVICES (E-m Systems)	ail, Networks, File Transfer, Acc	ess to Enterpr	ise and Scientifi
Help Desk	TASC	12A/1011	594-6248
GENERAL SERVICES			
Accounts/Billing, Registration	TASC	12A/1011	594-6248
ADB Support**	TASC	12A/1011	594-6248
Application Programming**	Division of Enterprise and	Federal	594-6248
	Custom Applications	Bldg.	
Computer Center General Policy	Director, Division of Computer System Services	12A/4039	496-5381
Computer Center Security Policy	Chief, Application Services Branch	12A/4011	496-5524
Disaster Recovery Process	Disaster Recovery Coordinator	12A/4033	496-5826
Documentation/Publications	Technical Information Office	12A/1011	594-6248
Output Distribution and Foreign Tape Ha			
NIH Campus	Output Distribution	12A/1000	496-6183
Parklawn Building	Output Distribution	2B70	443-4253
Public Information on CIT	Information Office, CIT	12A/4063	496-6203
Special Tape Handling	Output Distribution	12A/1000	496-6183
Statistical Packages	TASC	12A/1011	594-6248
TDD Line for Hearing Impaired	TASC	12A/1011	496-8294
Telecommunications Problems	TASC	12A/1011	594-6248
Training	TASC	12A/1011	594-6248

^{*}Non-NIH number; requires "9" prefix. **Services available to NIH employees only. *World Wide Web access to CIT through http://cit.nih.gov*

TASC (Technical Assistance and Support Center) is open 7:30 A.M. - 5:00 P.M.

Online Services Directory

Service	Internet Host Name	Dialup Access (301)	Status (301)
OS/390 (MVS) - South System			
WYLBUR (network)	WYLBUR.CU.NIH.GOV	402-2221	402-2211
2400-19200 bps (dialup)		*800-358-2221	
TSO (network)	TSO.CU.NIH.GOV	402-2223	402-2211
2400-19200 bps (dialup) TSO, DB2, IMS (Full-Screen 3270)	TN3270.CU.NIH.GOV	*800-358-2223	402-2211
(network)	1N3270.CU.NIH.GOV		402-2211
2400-9600 bps (dialup)		402-2227	
IBM Batch (RJE Batch)	N/A		402-2211
2400-9600 bps		402-2228	
N. 1 Pl. W. C		27/4	3.7/4
Network File Transfer	FTP.CU.NIH.GOV	N/A	N/A
OS/390 (MVS) - North System			402-2211
Soles o (MI v S) I voi en System	AD.CU.NIH.GOV		102 2211
EBCDIC			
RJE Work Station			
2400-9600 bps		480-0744	402-2211
SNA/SDLC/NRZI		400.0=40	
2400-9600 bps		480-0748	402-2211
OS/390 (MVS) - Titan			
(Standard System)			
TSO (Full-Screen 3270)	TN3270.TITAN.NIH.GOV	N/A	402-2211
Network File Transfer	FTP.TITAN.NIH.GOV	N/A	402-2211
Enterprise Open Systems (Unix)		27/4	100 0010
Compaq/Digital AlphaServers	EOS.NIH.GOV	N/A	402-2212
Helix Systems			
SGI Challenge System	HELIX.NIH.GOV	402-2222	402-2212
2400-33600 bps		*800-358-2022	
NIH Biowulf Cluster	BIOWULF.NIH.GOV	N/A	402-2212
NIIII not a coord thurst le Donne le	NI/A	402 6920	504 6049
NIHnet access through Parachute	N/A	402-6830 *800-827-0124	594-6248

NOTES

- To access 402, 435, 443, 480, 496, 594, or 827 numbers from other 402, 435, 443, 480, 496, 594, or 827 numbers, use only the last 5 digits.
- N/A: Not Applicable
- All telephone numbers are accessible through FTS.
- * These 800 numbers should be used only by persons who do not have access to FTS2001.